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March 8, 2004

Mary Cottrell, Secretary
Department of Telecommunications and Energy
One South Station, 2nd Floor
Boston, Massachusetts 02110

Re: NSTAR Electric, D.T.E. 03-121

Dear Secretary Cottrell:

Enclosed for filing in the above-referenced matter is an original and six (6) copies of NSTAR Electric's responses to the Information Requests on the accompanying list.

Thank you for your attention to this matter.

Very truly yours,

David S. Rosenzweig

Enclosures

cc: William Stevens, Hearing Officer
John-Cope Flanagan, Hearing Officer
Service List

Response to Information Requests

Information Request NEDGC-2-1
Information Request NEDGC-2-2
Information Request NEDGC-2-3
Information Request NEDGC-2-5
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COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF TELECOMMUNICATIONS AND ENERGY

Boston Edison Company Cambridge Electric Light Company Commonwealth Electric Company d/b/a NSTAR Electric	)	D.T.E. 03-121

CERTIFICATE OF SERVICE

I certify that I have this day served the foregoing documents upon the service list in the above-docketed proceeding in accordance with the requirements of 220 C.M.R. 1.05.

Stephen H. August

Stephen H. August, Esq.
Keegan, Werlin & Pabian, LLP
265 Franklin Street
Boston, MA 02110
(617) 951-1400

Dated: March 8, 2004

Information Request NEDGC-2-1

Provide copies of all correspondence between the Company and customers who installed, or were at the time of such correspondence considering installing distributed generation within the NSTAR service territories. We would not object to redactions of customer names, addresses or other information specifically indentifying (sic) the customer.

Response

NSTAR Electric objects to this information request because the request is overly broad, burdensome and is not likely to lead to relevant evidence. In order to respond to the request, NSTAR Electric would be required to conduct an extensive search of its records to find correspondence between it and its customers. NSTAR Electric would need to review every piece of correspondence between it and its customers to determine, based on the subject of the correspondence, whether the customers was "considering installing distributed generation." Unless the installation of distributed generation was the subject of the correspondence, NSTAR Electric would have no way of knowing what a customer was "considering." The time and resources needed to conduct such a search would be enormous, and would far outweigh any probative material that could be uncovered. The scope of this proceeding will address the costs incurred to provide standby service to customers with self-generation facilities and related ratemaking considerations. What NSTAR Electric and its customers may or may not have communicated to each other is not relevant to this case and the burden of searching for the documents is disproportional to the lack of relevance.

Without waiving the Company's objection to this request, the Company notes that its account executives report that most inquiries from customers relative to on-site generation concern interconnection issues after a customer has already installed self generation on its premises.

Information Request NEDGC-2-2

Please explain any and all reasons beyond those stated in NSTAR testimony why NSTAR believes "it is now necessary to revisit the rate design previously adopted by the Department [in the Cambridge/MIT case, D.P.U. 94-101/95-36] in order to establish Standby Rates that will meet the Department's policy goals for Standby Rates for DG customers, and to reflect the newly restructured electric industry in Massachusetts." *LaMontagne Testimony at p. 11, Lines 6-9.*

Response

Mr. LaMontagne's direct testimony (Exhibit NSTAR-HCL-1) fully explains why it is now necessary to revisit the rate design previously adopted by the Department in Cambridge/MIT, D.P.U. 94-101/95-36. In addition to the cited reference identified in the question, it has been nearly a decade since the Department's order in Cambridge/MIT, during which time the electric industry has been extensively restructured. In order to promote fairness to all customers, including customers that may elect to self-generate and the predominant majority of customers for whom such an opportunity is limited, NSTAR Electric believes that this case represents an appropriate and necessary opportunity to establish policy on standby rates. The purpose of NSTAR Electric's proposed standby tariffs is to establish just and reasonable cost-based standby tariffs on a going-forward basis. The justification for the Company's proposal is presented in Mr. LaMontagne's direct testimony and in the responses to information requests submitted throughout this proceeding.

Information Request NEDGC-2-3

Provide complete and detailed documentation for the statement that "in this circumstance, Transmission and Distribution system ("T&D") cost causation is based on how the T&D is actually planned and maintained for customers who self generate. *LaMontagne Testimony* at p. 12-13.

Response

The NSTAR Electric T&D system is planned to meet basic planning criteria that are designed to ensure that adequate capacity is available across the system to serve anticipated customer load under both normal and emergency system conditions. The criteria that NSTAR Electric employs calls for assessing the peak load demand that each new customer will be placing on the system. An assessment is conducted to determine if the existing system can serve this additional demand under peak load conditions. The assessment includes consideration of the system's ability to serve peak demands under normal conditions as well as the ability to serve peak loads with a critical facility out of service. The evaluation considers the capacity requirements at each level in the energy delivery system. This begins with the physical connection at the customer site and involves installation of appropriately sized service entrance wires and possibly the installation of a service transformer. Following this is an assessment of the connection to the primary and back-up feeder circuits for the local distribution facilities. Next is an assessment of the normal and emergency substation load carrying capabilities and finally a determination of the transmission system's ability to serve the expected load addition. Each step in this process compares the load carrying capabilities of the T&D equipment for the specified condition to the peak demands projected to be seen by these facilities with the new customer added to the system. When peak demands exceed the load carrying capabilities of equipment, system upgrades are developed to mitigate such overloads. Determination of the demands placed on each element in the delivery system is established by adding new customer loads to the non-coincident peak loading of the elements under study. The NSTAR Electric criterion also considers unavailability of generation for the conditions studied and NSTAR Electric designs its system to support customer load when the largest generating unit is unavailable. This generally leads to a requirement to supply the full customer peak demand as most customers with generation have only a single generating unit to rely upon.

Consistent with the above-described planning process, NSTAR Electric's proposed standby rates are designed to ensure that the customers for whom facilities have been built to serve their peak load requirements pay for those facilities on a cost basis.

Without such cost-based standby rates, cross subsidies would exist and the incorrect economic signal would be sent to customers considering on-site generating options.

Information Request NEDGC-2-5

Please explain how the "cost-causation complication" referred to in Mr. LaMontagne's testimony on page 16 actually relates to cost causation, rather than the potential for under-recovery of costs.

Response

The answer referenced in Exhibit NSTAR-HCL-1, at 16 is in response to a question relating to the design of the standby rate. The design of rates, under Department ratemaking policies, links the recovery of costs to the cause of those costs. The premise of this information request, i.e., that cost recovery and cost causation are unrelated concepts in the context of designing rates, is therefore erroneous. Exhibit NSTAR-HCL-1 refers to the fact that the manner in which rates have been designed for non-standby customers ensures an appropriate link between the level of the monthly billing quantities and cost causation for members of the class of customer. For standby customers, the monthly billing quantities will not provide a reasonable measure for cost causation, generally, because of the infrequent and unscheduled use of delivered energy from the distribution grid. Thus, a different measure must be employed to recognize that the distribution system is built with the capability to serve the standby customer whenever delivery service is needed.

Information Request NEDGC-2-7

Provide complete and detailed documentation supporting the decision to convert distribution rates elements that included an energy component into a fixed demand charge.

Response

Please refer to Exhibit NSTAR-HCL-1 at pages 24–25, Exhibit NSTAR-HCL-2, Exhibit NSTAR-HCL-3, Exhibit NSTAR-HCL-4 and the responses to Information Request DTE-1-12, DTE-3-14 and DTE-4-15.

Information Request NEDGC-2-8

In reference to Mr. LaMontagne's statement on lines 14-15 of page 24, what, if any, other means did Company consider to avoid double collection of distribution revenues, other than converting energy use charges to contract demand based charges for the rates discussed?

Response

The Company has not identified other ways to avoid the double-collection issue while using a rate structure that recognizes both standby load service and supplemental load service.

Information Request NEDGC-2-9

Provide the kWh and kW "billing determinants" that served as the basis for the development of the single demand charges for Rate SB-2 for Boston Edison, as well as for the other rates where such conversion from energy to demand charges were made as described on pages 23 and 24 of Mr. LaMontagne's testimony, including, the number of kWh used to determine the energy based revenue amount shown on Exhibits NSTAR-HCL-2, NSTAR HCL-3 and NSTAR HCL-4.

Response

Please refer to Attachment NEDGC-2-9 pages 1 through 4, which set forth the rate design schedules for Boston Edison Rate G-2, Cambridge Rate G-2 and Commonwealth Rate G-2 and Rate G-3, respectively.

D.T.E. 03-121
Attachment NEDGC-2-9

BOSTON EDISON COMPANY
ADJUSTED YEAR 1995 BILLING DETERMINANTS
PRE-RAD RATES REFLECTING 1996 BASE, RATES, CC & FC
UNBUNDLED RATES FOR EFFECT JANUARY 2003

PRE-RAD RATE G-2	UNITS	PRICE	REVENUE
CUSTOMER CHARGE			
	303,168	20.21	6,127,025
DEMAND CHARGE			
WINTER > 10	3,489,462	11.45	39,954,340
SUMMER > 10	2,017,299	24.52	49,464,171
TOTAL	5,506,761		89,418,511
ENERGY CHARGE			
WINTER -1st 2000 KWH	337,697,570	0.06302	21,281,701
next 150 hrs	645,393,157	0.02757	17,793,489
Additional	548,255,682	0.01445	7,922,295
TOTAL	1,531,346,409		46,997,485
SUMMER -1st 2000 KW	169,086,564	0.13282	22,458,077
next 150 hrs	360,563,002	0.03975	14,332,379
Additional	321,971,623	0.01784	5,743,974
TOTAL	851,621,189		42,534,431
CONSERVATION CHG	2,382,967,598	0.00381	9,079,107
FUEL CHARGE	2,382,967,598	0.04190	99,846,342
TOTAL CHARGES			294,002,901

UNBUNDLED RATE DESIGN RATE G-2		UNITS	PRICE	REVENUE
CUSTOMER CHARGE		303,168	18.19	5,514,626
DISTRIBUTION CHARGE (Demand)				
	WINTER > 10 KVA	3,489,462	9.43	32,905,627
	SUMMER > 10 KVA	2,017,299	20.22	40,789,786
	TOTAL	5,506,761		73,695,412
TRANSMISSION CHARGE (Demand)				
	WINTER > 10 KVA	3,489,462	1.89	6,595,083
	SUMMER > 10 KVA	2,017,299	4.04	8,149,888
	TOTAL	5,506,761		14,744,971
DISTRIBUTION CHARGE (Energy)				
	WINTER 1st 2000 kwh	337,697,570	0.01143	3,859,883
	next 150 h	645,393,157	0.00638	4,117,608
	Additional	548,255,682	0.00451	2,472,633
	TOTAL	1,531,346,409		10,450,125
	SUMMER 1st 2000 kw	169,086,564	0.02136	3,611,689
	next 150	360,563,002	0.00811	2,924,166
	Additional	321,971,623	0.00500	1,609,858
	TOTAL	851,621,189		8,145,713
TRANSMISSION CHARGE (Energy)				
	WINTER 1st 2000 kwh	337,697,570	0.00369	1,247,357
	next 150 h	645,393,157	0.00369	2,383,895
	Additional	548,255,682	0.00000	0
	TOTAL	1,531,346,409		3,631,251
	SUMMER 1st 2000 kw	169,086,564	0.00369	624,557
	next 150	360,563,002	0.00369	1,331,815
	Additional	321,971,623	0.00000	0
	TOTAL	851,621,189		1,956,372
TRANSITION CHARGE (Energy)				
	WINTER 1st 2000 kwh	337,697,570	0.03866	13,055,388
	next 150 h	645,393,157	0.01026	6,621,734
	Additional	548,255,682	0.00010	54,826
	TOTAL	1,531,346,409		19,731,947
	SUMMER 1st 2000 kw	169,086,564	0.09352	15,812,975
	next 150	360,563,002	0.01893	6,825,458
	Additional	321,971,623	0.00458	1,474,630
	TOTAL	851,621,189		24,113,063
DSM CHARGE)		2,382,967,598	0.00250	5,957,419
RENEWABLES CHARGE		2,382,967,598	0.00050	1,191,484
TRANSITION RATE ADJUSTMENT		2,382,967,598	-0.00010	(238,297)
DEFAULT SERVICE ADJ CHG		2,382,967,598	0.00000	0
GENERATION CHARGE		2,382,967,598	0.04950	117,956,896
TOTAL CHARGES				286,850,983

CAMBRIDGE ELECTRIC LIGHT COMPANY
ADJUSTED YEAR 1995 BILLING DETERMINANTS
PRE-RAD RATES REFLECTING 1997 BASE, RATES, CC & FC
UNBUNDLED RATES FOR EFFECT JANUARY 2003

PRE-RAD RATE G-2 (1)

		UNITS	PRICE	REVENUE
CUSTOMER CHARGE				
	SEC	3,120	100.13	312,406
	PRI	60	95.19	5,711
	TOTAL	3,180		318,117
DEMAND CHARGE				
	<100 KVA - SEC	283,731	6.72	1,906,672
	<100 KVA - PRI	5,900	6.39	37,689
	>100 KVA - SEC	686,462	13.45	9,232,914
	>100 KVA - PRI	9,251	12.79	118,279
	TOTAL	985,344		11,295,555
ENERGY CHARGE				
	PEAK - SEC	104,059,575	0.02931	3,049,986
	PEAK - PRI	1,237,495	0.02786	34,479
	LOW A - SEC	97,858,363	0.02279	2,230,192
	LOW A - PRI	1,118,111	0.02166	24,223
	LOW B - SEC	172,518,038	0.01688	2,912,104
	LOW B - PRI	2,174,244	0.01605	34,888
	TOTAL	378,965,826		8,285,873
CONSERVATION CHG		378,965,826	0.00017	64,424
FUEL CHARGE		378,965,826	0.03490	13,225,907
TOTAL CHARGES				33,189,876

UNBUNDLED RATE DESIGN RATE G-2

	UNITS	PRICE	REVENUE
CUSTOMER CHARGE			
SEC	3,120	90.00	280,800
PRI	60	85.55	5,133
TOTAL	3,180		285,933
DISTRIBUTION CHARGE			
<100 KVA - SEC	283,731	1.09	309,267
<100 KVA - PRI	5,900	0.79	4,661
>100 KVA - SEC	686,462	2.06	1,414,112
>100 KVA - PRI	9,251	1.46	13,506
TOTAL	985,344		1,741,546
TRANSMISSION CHARGE			
<100 KVA - SEC	283,731	4.50	1,276,790
<100 KVA - PRI	5,900	4.50	26,550
>100 KVA - SEC	686,462	9.37	6,432,149
>100 KVA - PRI	9,251	9.37	86,682
TOTAL	985,344		7,822,170
TRANSITION CHARGE (Demand)			
<100 KVA - SEC	283,731	0.77	218,473
<100 KVA - PRI	5,900	0.77	4,543
>100 KVA - SEC	686,462	0.77	528,576
>100 KVA - PRI	9,251	0.77	7,123
TOTAL	985,344		758,715
DISTRIBUTION CHARGE (Energy)			
PEAK - SEC	104,059,575	0.00493	513,014
PEAK - PRI	1,237,495	0.00378	4,678
LOW A - SEC	97,858,363	0.00493	482,442
LOW A - PRI	1,118,111	0.00378	4,226
LOW B - SEC	172,518,038	0.00493	850,514
LOW B - PRI	2,174,244	0.00378	8,219
TOTAL	378,965,826		1,863,092
TRANSITION CHARGE (Energy)			
PEAK - SEC	104,059,575	0.00123	127,993
PEAK - PRI	1,237,495	0.00123	1,522
LOW A - SEC	97,858,363	0.00000	0
LOW A - PRI	1,118,111	0.00000	0
LOW B - SEC	172,518,038	-0.00074	(127,663)
LOW B - PRI	2,174,244	-0.00074	(1,609)
TOTAL	378,965,826		243
TRANSITION RATE ADJUSTMENT			
SEC	374,435,976	0.00074	277,083
PRI	4,529,850	0.00074	3,352
TOTAL	378,965,826		280,435
DSM CHARGE			
SEC	374,435,976	0.00250	936,090
PRI	4,529,850	0.00250	11,325
TOTAL	378,965,826		947,415
RENEWABLES CHARGE			
SEC	374,435,976	0.00050	187,218
PRI	4,529,850	0.00050	2,265
TOTAL	378,965,826		189,483
DEFAULT SERVICE ADJUSTMENT			
PEAK - SEC	104,059,575	0.00160	166,495
PEAK - PRI	1,237,495	0.00160	1,980
LOW A - SEC	97,858,363	0.00160	156,573
LOW A - PRI	1,118,111	0.00160	1,789
LOW B - SEC	172,518,038	0.00160	276,029
LOW B - PRI	2,174,244	0.00160	3,479
TOTAL	378,965,826		606,345
GENERATION CHARGE			
PEAK - SEC	374,435,976	0.04700	17,598,491
PEAK - PRI	4,529,850	0.04606	208,645
TOTAL	378,965,826		17,807,136
TOTAL CHARGES			32,302,519

COMMONWEALTH ELECTRIC
ADJUSTED YEAR 1995 BILLING DETERMINANTS
PRE-RAD RATES REFLECTING 1997 BASE RATES, CC & FC
UNBUNDLED RATES FOR EFFECT JANUARY 2003

PRE-RAD RATE G-2 Includes Rate G-8

	UNITS	PRICE	REVENUE
CUSTOMER CHARGE			
SEC	4,189	400.14	1,676,186
PRI(M)	192	380.38	73,033
PRI(S)	12	388.14	4,658
TOTAL	4,393		1,753,877
DEMAND CHARGE			
PEAK - SEC	1,141,331	3.11	3,549,539
PEAK - PRI(M)	51,845	2.96	153,273
PEAK - PRI(S)	4,381	3.02	13,216
TOTAL	1,197,557		3,716,028
ENERGY CHARGE			
PEAK - SEC	112,706,347	0.02728	3,074,629
PEAK - PRI(M)	4,825,201	0.02593	125,129
PEAK - PRI(S)	528,340	0.02646	13,981
LOW A - SEC	111,405,762	0.02413	2,688,221
LOW A - PRI(M)	4,949,555	0.02294	113,533
LOW A - PRI(S)	464,426	0.02341	10,870
LOW B - SEC	191,029,076	0.01827	3,490,101
LOW B - PRI(M)	9,252,504	0.01737	160,693
LOW B - PRI(S)	794,994	0.01772	14,089
TOTAL	435,956,205		9,691,246
CONSERVATION CHG	435,956,205	0.00247	1,076,812
FUEL CHARGE	435,956,205	0.06500	28,310,094
TOTAL CHARGES			44,548,057

UNBUNDLED RATE DESIGN RATE G-2

	UNITS	PRICE	REVENUE
CUSTOMER CHARGE			
SEC	4,189	360.13	1,508,585
PRI(M)	192	342.34	65,729
PRI(S)	12	349.33	4,192
TOTAL	4,393		1,578,506
DISTRIBUTION CHARGE (DEMAND)			
PEAK - SEC	1,141,331	1.53	1,746,236
PEAK - PRI(M)	51,845	1.45	75,404
PEAK - PRI(S)	4,381	1.48	6,502
TOTAL	1,197,557		1,828,143
TRANSITION CHARGE			
SEC	415,141,185	0.02749	11,412,231
PRI(M)	19,027,260	0.02749	523,059
PRI(S)	1,787,760	0.02749	49,146
TOTAL	435,956,205		11,984,436
TRANSMISSION CHARGE (DEMAND)			
PEAK - SEC	1,141,331	1.52	1,734,823
PEAK - PRI(M)	51,845	1.44	74,911
PEAK - PRI(S)	4,381	1.47	6,459
TOTAL	1,197,557		1,816,194
TRANSMISSION CHARGE (ENERGY)			
PEAK - SEC	415,141,185	0.00083	346,528
PEAK - PRI(M)	19,027,260	0.00079	15,098
PEAK - PRI(S)	1,787,760	0.00081	1,448
TOTAL	435,956,205		363,073
DISTRIBUTION CHARGE (ENERGY)			
PEAK - SEC	112,706,347	0.01403	1,581,270
PEAK - PRI(M)	4,825,201	0.01132	54,621
PEAK - PRI(S)	528,340	0.01244	6,573
LOW A - SEC	111,405,762	0.01120	1,247,745
LOW A - PRI(M)	4,949,555	0.00863	42,715
LOW A - PRI(S)	464,426	0.00968	4,496
LOW B - SEC	191,029,076	0.00593	1,132,802
LOW B - PRI(M)	9,252,504	0.00361	33,402
LOW B - PRI(S)	794,994	0.00457	3,633
TOTAL	435,956,205		4,107,256
TRANSITION RATE ADJ			
SEC	415,141,185	-0.00028	(116,240)
PRI(M)	19,027,260	-0.00028	(5,328)
PRI(S)	1,787,760	-0.00028	(501)
TOTAL	435,956,205		(122,068)
DSM CHARGE			
SEC	415,141,185	0.00250	1,037,853
PRI(M)	19,027,260	0.00250	47,568
PRI(S)	1,787,760	0.00250	4,469
TOTAL	435,956,205		1,089,891
RENEWABLES CHARGE			
SEC	415,141,185	0.00050	207,571
PRI(M)	19,027,260	0.00050	9,514
PRI(S)	1,787,760	0.00050	894
TOTAL	435,956,205		217,978
GENERATION CHARGE			
SEC	415,141,185	0.04700	19,511,636
PRI(M)	19,027,260	0.04606	876,396
PRI(S)	1,787,760	0.04700	84,025
TOTAL	435,956,205		20,472,056
TOTAL CHARGES			43,335,464

COMMONWEALTH ELECTRIC
ADJUSTED YEAR 1995 BILLING DETERMINANTS
PRE-RAD RATES REFLECTING 1997 BASE RATES, CC & FC
UNBUNDLED RATES FOR EFFECT JANUARY 2003

PRE-RAD RATE G-3 Includes Rates G-3(ED), Rider, SXD, Increm.

	UNITS	PRICE	REVENUE
CUSTOMER CHARGE			
SEC	363	1,000.14	363,051
PRI	301	950.74	286,173
TOTAL	664		649,224
DEMAND CHARGE			
PEAK - SEC	281,095	5.44	1,529,157
PEAK - PRI	616,111	5.17	3,186,073
TOTAL	897,206		4,715,229
ENERGY CHARGE			
PEAK - SEC	32,067,127	0.01683	539,690
PEAK - PRI	68,295,640	0.01600	1,092,634
LOW A - SEC	32,691,823	0.01368	447,224
LOW A - PRI	69,053,712	0.01300	897,989
LOW B - SEC	49,688,387	0.00781	388,066
LOW B - PRI	131,231,567	0.00742	974,288
TOTAL	383,028,256		4,339,891
CONSERVATION CHG	383,028,256	0.00247	946,080
FUEL CHARGE	383,028,256	0.06500	24,547,681
TOTAL CHARGES			35,198,106

UNBUNDLED RATE DESIGN RATE G-3

	UNITS	PRICE	REVENUE
CUSTOMER CHARGE			
SEC	363	900.00	326,700
PRI	301	855.54	257,518
TOTAL	664		584,218
DISTRIBUTION CHARGE (DEMAND)			
PEAK - SEC	281,095	0.88	247,364
PEAK - PRI	616,111	0.64	394,311
TOTAL	897,206		641,675
TRANSITION CHARGE (DEMAND)			
PEAK - SEC	281,095	2.41	677,439
PEAK - PRI	616,111	2.41	1,484,828
TOTAL	897,206		2,162,266
TRANSITION CHARGE			
PEAK - SEC	32,067,127	0.02428	778,590
PEAK - PRI	68,295,640	0.02428	1,658,218
LOW A - SEC	32,691,823	0.02231	729,355
LOW A - PRI	69,053,712	0.02231	1,540,588
LOW B - SEC	49,688,387	0.02024	1,005,693
LOW B - PRI	131,231,567	0.02024	2,656,127
TOTAL	383,028,256		8,368,571
TRANSMISSION CHARGE (DEMAND)			
PEAK - SEC	281,095	1.92	539,702
PEAK - PRI	616,111	1.92	1,182,933
TOTAL	897,206		1,722,636
TRANSMISSION CHARGE (ENERGY)			
SEC	114,447,337	0.00000	0
PRI	268,580,919	0.00000	0
TOTAL	383,028,256		0
DISTRIBUTION CHARGE (ENERGY)			
PEAK - SEC	32,067,127	0.00871	279,305
PEAK - PRI	68,295,640	0.00635	433,677
LOW A - SEC	32,691,823	0.00771	252,054
LOW A - PRI	69,053,712	0.00549	379,105
LOW B - SEC	49,688,387	0.00417	207,201
LOW B - PRI	131,231,567	0.00221	290,022
TOTAL	383,028,256		1,841,363
DSM CHARGE			
SEC	114,447,337	0.00250	286,118
PRI	268,580,919	0.00250	671,452
TOTAL	383,028,256		957,571
RENEWABLES CHARGE			
SEC	114,447,337	0.00050	57,224
PRI	268,580,919	0.00050	134,290
TOTAL	383,028,256		191,514
TRANSITION RATE ADJ			
SEC	114,447,337	-0.00106	(121,314)
PRI	268,580,919	-0.00106	(284,696)
TOTAL	383,028,256		(406,010)
GENERATION CHARGE			
SEC	114,447,337	0.04700	5,379,025
PRI	268,580,919	0.04606	12,370,837
TOTAL	383,028,256	0.00000	17,749,862
TOTAL CHARGES			33,813,665

Information Request NEDGC-2-10

For each of the Applicable Rate Schedules during the period 2000-2003; provide number of customers in each class whose monthly maximum demand as measured in kW varied between their lowest month and highest month by more than (1) 25%, (2) 50% or (3) 75% or (4) 100%. For example, if a customer's lowest monthly maximum demand was 100 kW in April, and their highest demand monthly maximum was 185 kW in August, then they would be listed under group 3.

Response

The Company does not produce a report containing the information requested in the normal course of business. In order to provide a response, the Company would need to perform an extensive analysis of Company load data, which would require substantial additional time. The Company will endeavor to develop this analysis in response to the request and, if such an analysis can be reasonably performed, will submit a supplemental response when the information and analysis is completed.

Information Request NEDGC-2-11

Please provide complete and detailed information supporting the statement that "Because the Company would not plan for or build distribution and transmission facilities to serve interruptible customers, the customer would be billed a customer charge only and then billed on as "as-used" basis under the otherwise applicable tariff for any service actually taken." *LaMontagne Testimony* at 26, lines 21-24.

Response

As explained in the testimony, the Company generally does not plan for or build distribution and transmission facilities for interruptible customers (except perhaps for special metering equipment that the customer pays for directly to serve its interruptible customers). Therefore, the Company imposes only a monthly customer charge to reflect the cost of the electric meter and service drop, their installation, monthly meter reading and the issuance of a monthly bill. The Company proposes to bill such interruptible customers on an "as-used" basis under the otherwise applicable tariff rather than on the basis of a contract demand amount because the Company has not made a commitment to the customer to provide firm service (i.e., to make the necessary monetary investment in distribution facilities that would permit the customer to receive firm service). Rather, non-firm service would be provided to standby customers only when there is available capacity on the Company's distribution system.

Information Request NEDGC-2-12

In reference to the quote in the prior question NEDGC 2-11, please explain how NSTAR decided that a customer who seeks "interruptible" service and causes the Company to incur no costs should be nonetheless charged the exact same rates as an all requirements customer?

Response

Interruptible customers are "opportunity customers" because they provide the Company and its firm customers with an opportunity to obtain a financial contribution towards the fixed costs that are needed to serve the Company's firm customers. See New England Energy Group, D.P.U. 85-178, at 38 (1987). The Company proposes to charge the same rate to interruptible customers (on an "as-used" basis) as an all-requirements customer in order to provide contribution from such customers toward the reduction of fixed costs needed to serve the Company's firm customers. It should be noted, however, that a standby interruptible customer that has on-site generation will be paying far less than a similar customer without on-site generation, since the rates are charged only when the generation is not serving the customer's load.

Information Request NEDGC-2-13

Please provide copies of all applicable tariffs, rates, agreements, or contracts under the terms of which the Company currently provides, or in the past five years, provided so-called interruptible service.

Response

Please see response to Information Request AG-1-14. In addition, please see Attachments NEDGC-2-13(a) and (b) for the Interruptible Rate I-1 for Cambridge and Commonwealth, respectively. These rates were terminated as of January 1, 2001.

D.T.E. 03-121
Attachment NEDGC-2-13 (a)

LARGE GENERAL INTERRUPTIBLE SERVICE

RATE I-1

AVAILABILITY

This rate is available to any Customer (1) who was taking service under the Company's Interruptible Rate I-1 on February 28, 1998 and, (2) who is taking Standard Offer Service from the Company and, (3) who is willing to make available for interruption a load of at least 100 kilovolt-amperes (the "Interruptible Load") in accordance with the terms of this rate. Electricity delivered by the Company, including service to the Customer's Interruptible Load, shall be billed under Rate G-2 or Rate G-3, subject to the Interruptible Credit provisions of this rate as applied to the Interruptible Load. This rate is available to Customers until January 1, 2001 whereupon it will terminate. Service under this rate is subject to both the Company's printed requirements and the Company's Terms and Conditions - Distribution Service, including, without limitation, generally applicable provisions concerning interruption, curtailment or alteration of service, each as in effect from time to time.

INTERRUPTIBLE SERVICE CATEGORIES

The Customer may elect either of the interruptible service categories set forth below. The minimum interruptible load requirement of 100 Kva shall apply separately to each service category.

Category 1:

Category 1 interruptible loads are loads which the Company may interrupt at its sole discretion at any time upon 30 minutes notice to the Customer but which do not qualify as Category 2 interruptible loads. No single interruption shall exceed 8 hours in duration, nor shall there be more than one interruption on any single calendar day. The Customer may elect one or more of the following options:

Option	Maximum Number of Interruptions Per Year	Maximum Cumulative Interruptible Hours Per Year
A	60	360
B	40	240
C	20	120

LARGE GENERAL INTERRUPTIBLE SERVICE

RATE I-1

INTERRUPTIBLE SERVICE CATEGORIES (continued)

Category 2:

Category 2 interruptible loads must qualify as NEPOOL Dispatchable Type 2 or Type 3 Loads as defined in NEPOOL Criteria, Rules and Standards No. 16 ("CRS #16") or in such replacement therefor as may be adopted by NEPOOL from time to time. Customers electing service under Category 2 shall be subject to all the terms and conditions of NEPOOL CRS #16, including operational characteristics and metering or telemetering requirements, as appropriate under the available options outlined in NEPOOL CRS #16.

DETERMINATION OF CIL

During the course of a Month, the Company may notify the Customer to interrupt the NIL. At the end of such Month, the Company will analyze the Interruptible Periods which occurred during the Month, if any.

A. For any Interruptible Period which included the hour in which the Company's Adjusted Monthly Peak occurred, the CIL will be calculated based upon the AIL.

B. For any Interruptible Period which did not include the Company's Adjusted Monthly Peak, the CIL will be calculated using the lesser of the AIL or the NIL.

C. In the event that there were no Interruptible Periods during the Month, the CIL for that Month shall be equal to the lesser of: (i) the average of the CILs during the prior three Months or (ii) 84% of the NIL.

D. In the event that there was more than one Interruptible Period during the same Month, the CIL for the Month shall be equal to the average of the CILs applicable to the Interruptible Periods during such Month.

LARGE GENERAL INTERRUPTIBLE SERVICE

RATE I-1

DETERMINATION OF CIL (continued)

The Company shall require the Customer to interrupt the NIL at least once during each Capability Period, unless the Customer has been required by the Company to interrupt load pursuant to the provisions of this Rate I-1 at another time during the same Capability Period.

INTERRUPTIBLE CREDIT PER MONTH

The sum of the Customer's Distribution and Transmission Demand Charge per month under Rate G-2 or Rate G-3 shall be subject to an interruptible credit determined by multiplying the CIL by the applicable credit per Kva set forth below:

Credit:	Category 1	Rate G-2	Rate G-3
	Option A	$6.94 per Kva	$7.62 per Kva
	Option B	$4.63 per Kva	$5.08 per Kva
	Option C	$2.31 per Kva	$2.54 per Kva
	Category 2	$6.94 per Kva	$7.62 per Kva

FAILURE TO INTERRUPT

If at any time a Customer taking Category 1 interruptible service hereunder fails to interrupt an amount of load equal to at least 70% of the NIL within 30 minutes of being required to do so by the Company or fails to maintain such load interrupted during the Interruptible Period, the following penalties shall be applied:

A. The NIL will be reduced to the AIL for a period of 12 Months.

B. A charge will be added to the Customer's bill for the following Month equal to the difference between 0.70 times the NIL and the AIL multiplied by the applicable Credit per Kva as calculated above times the number of Months, to a maximum of 6, since the last change in the level of the NIL.

LARGE GENERAL INTERRUPTIBLE SERVICE

RATE I-1

FAILURE TO INTERRUPT (continued)

C. The Company may terminate the service agreement at its sole discretion.

Any penalties incurred by the Company occasioned by the failure of the Customer to perform under the terms of this rate will be borne in full by the Customer. Any interference by the Customer with the normal operation of the Company's disconnection devices shall be deemed to be a failure to interrupt and shall cause the Customer to incur the above-stated penalties.

SPECIAL PROVISIONS

A. Where the Customer has provided for the separate wiring and metering of the Interruptible Load, such wiring shall preclude any use of the Company's firm service as an alternate source of supply to the Interruptible Load. The Customer may not, under any circumstances, use the Company's firm service as an alternate source of supply to the Interruptible Load during interruptions of supply hereunder.

B. Upon written request of the Company, the Customer shall install, maintain and bear the cost of such telemetering equipment and data circuits as the Company may reasonably require for the transmission of various metered values to its operations center. The design of and equipment specifications for such telemetering equipment and data circuits shall be approved by the Company prior to installation thereof by the Customer.

C. Upon written request of the Company, the Customer shall provide at its own expense a circuit breaker capable of disconnecting the Interruptible Load served hereunder through remote control devices installed and controlled by the Company. The Company will furnish and the Customer shall install the equipment to provide remote control of the circuit breaker at a location approved by the Company. The Customer shall furnish and install the electrical facilities required to connect the control equipment and shall supply the electric power necessary for its operation. Until such time as the Company's remote control system is installed, the Customer will be responsible for disconnecting the Interruptible Load at the Company's request.

LARGE GENERAL INTERRUPTIBLE SERVICE

RATE I-1

SPECIAL PROVISIONS (continued)

D. Upon written request of the Company, the Customer shall provide a telephone module, dedicated solely to the purpose of communicating with the Company, with both audible and visual alarms to ensure prompt and effective response to the notification by the Company. Telephone calls to and from the Company's System Control Center will be recorded.

DEFINITIONS

A. Interruptible Load. The Interruptible Load shall be the amount of load that a Customer electing service under the provisions of this rate offers for interruption.

B. Actual Interruptible Load ("AIL"). The AIL shall be defined as either of the following, as appropriate:

1. The difference between the peak 15 minute integrated demand established by the Customer during the peak period of the Month, as defined in Rate G-2 or G-3, measured in Kva, on the Company's meter(s) recording only the Interruptible Load (if such load is metered separately from any other electric service supplied to the Customer) and the Customer's peak 15 minute integrated demand as measured during the Interruptible Period; or

2. The difference between the peak 15 minute integrated demand established by the Customer during the peak period of the Month, as defined in Rate G-2 or Rate G-3, measured in Kva, on the Company's meter(s) recording all electric service supplied to the Customer and the Customer's peak 15 minute integrated demand as measured during the Interruptible Period.

C. Adjusted Monthly Peak. The Adjusted Monthly Peak shall be defined as set forth in Section 15.3 of the NEPOOL Agreement from time to time.

D. Capability Period. A Capability Period shall be defined as set forth in Section 15.7 of the NEPOOL Agreement from time to time.

LARGE GENERAL INTERRUPTIBLE SERVICE

RATE I-1

DEFINITIONS (continued)

E. Credited Interruptible Load ("CIL"). The CIL shall be equal to 84% of either the AIL or the NIL, as appropriate.

F. Interruptible Period. An Interruptible Period shall begin when the Customer is given notice by the Company to interrupt the NIL and shall end when the Company notifies the Customer that the period of interruption is over.

G. Month. The word Month as used in this Rate I-1 shall have the meaning set forth in the Company's Terms and Conditions from time to time.

H. NEPOOL. The New England Power Pool as established by the NEPOOL Agreement dated September 1, 1971, as amended.

I. Nominated Interruptible Load ("NIL"). The NIL shall be the amount of load in Kva which the Customer agrees to interrupt within the time period required by Category 1 or Category 2, as appropriate, but not less than 100 Kva.

TERM

This rate shall terminate on December 31, 2000.

Filed Pursuant to Order of the
Massachusetts Department of Telecommunications and Energy
Issued February 27, 1998 in D.P.U./D.T.E. 97-111

D.T.E. 03-121
Attachment NEDGC-2-13 (b)

LARGE GENERAL INTERRUPTIBLE SERVICE

RATE I-1

AVAILABILITY

This rate is available to any Customer (1) who was taking service under the Company's Interruptible Rate I-1 on February 28, 1998 and, (2) who is taking Standard Offer Service from the Company and, (3) who is willing to make available for interruption a load of at least 100 kilovolt-amperes (the "Interruptible Load") in accordance with the terms of this rate. Electricity delivered by the Company, including service to the Customer's Interruptible Load, shall be billed under Rate G-2 or Rate G-3, subject to the Interruptible Credit provisions of this rate as applied to the Interruptible Load. This rate is available to Customers until January 1, 2001 whereupon it will terminate. Service under this rate is subject to both the Company's printed requirements and the Company's Terms and Conditions - Distribution Service, including, without limitation, generally applicable provisions concerning interruption, curtailment or alteration of service, each as in effect from time to time.

INTERRUPTION OF SERVICE

The Customer may elect to take service under either of the interruptible service categories set forth below. The minimum Interruptible Load requirement of 100 kilovolt-amperes ("KVA") shall apply separately to each such service category.

TYPE 1:

Type 1 Interruptible Loads are loads which the Company may interrupt at its sole discretion at any time upon 30 minutes notice to the Customer but which do not qualify as Company Type 2 Interruptible Loads. No single such interruption shall exceed 8 hours in duration, nor shall there be more than one interruption on any single calendar day. The Customer may elect one or more of the following options:

Option	Maximum Number of Interruptions Per Year	Maximum Cumulative Interruptible Hours Per Year
A	60	360
B	40	240
C	20	120

LARGE GENERAL INTERRUPTIBLE SERVICE

RATE I-1

INTERRUPTION OF SERVICE (continued)

TYPE 2:

Type 2 Interruptible Loads must qualify as NEPOOL Dispatchable Type 2 or Type 3 Loads as defined in NEPOOL Criteria, Rules and Standards No. 16 ("CRS #16") or in such replacement therefor as may be adopted by NEPOOL from time to time. "NEPOOL" means the New England Power Pool as established by the NEPOOL Agreement dated September 1, 1971, as amended.

Customers electing to take service as Company Type 2 Interruptible Loads shall be subject to all the terms and conditions of NEPOOL CRS #16, including operational characteristics and metering or telemetering requirements, as appropriate under the available options outlined therein.

INTERRUPTIBLE CREDIT PER MONTH

The sum of the Customer's Distribution and Transmission Demand Charge per Month under Rate G-2 or Rate G-3 shall be subject to an Interruptible Credit determined by multiplying the Customer's CIL by the product of the applicable Monthly Demand Credit per Month multiplied times the Maximum Credit Factor per Month, both as set forth below:

		Rate G-2	Rate G-3
Demand Credit:	Type 1		
	Option A	$7.80 per KVA	$7.80 per KVA
	Option B	$5.20 per KVA	$5.20 per KVA
	Option C	$2.60 per KVA	$2.60 per KVA
	Type 2	$7.80 per KVA	$7.80 per KVA

Maximum Credit Factor:

The Maximum Credit Factor per Month shall be the lesser of 1.0 or 2.1268 multiplied by the Customer's Load Factor per Month. The Customer's Load Factor per Month shall be

LARGE GENERAL INTERRUPTIBLE SERVICE

RATE I-1

INTERRUPTIBLE CREDIT PER MONTH (continued)

calculated by dividing the total KWH in the Month by the product of the maximum 15 minute demand in KVA during the peak load period multiplied times the total hours in the Month.

A. The Nominated Interruptible Load ("NIL") shall be equal to the amount of load, in KVA, which the Customer agrees to interrupt within the time period required by the Type 1 and Type 2 service categories, as appropriate, after receiving notice to do so from the Company, but not less than 100 KVA.

B. The Actual Interruptible Load ("AIL") shall be defined as either of the following, as appropriate to the Customer's circumstances.

1. The difference between the peak 15 minute integrated demand established by the Customer during the peak period of the Month, as defined in Rate G-2 or G-3, measured in KVA, on the Company's meter(s) recording only the Interruptible Load (if such load is metered separately from any other electric service supplied to the Customer) and the Customer's peak 15 minute integrated demand as measured during the Interruptible Period; or

2. The difference between the peak 15 minute integrated demand established by the Customer during the peak period of the Month, as defined in Rate G-2 or Rate G-3, measured in KVA, on the Company's meter(s) recording all electric service supplied to the Customer and the Customer's peak 15 minute integrated demand as measured during the Interruptible Period.

C. The Credited Interruptible Load ("CIL") shall be equal to a factor of 0.80 multiplied by either the AIL or the NIL as appropriate.

LARGE GENERAL INTERRUPTIBLE SERVICE

RATE I-1

INTERRUPTIBLE PERIOD

An Interruptible Period shall begin when the Customer is required by the Company to interrupt the NIL and shall end when the Company notifies the Customer that the period of interruption is over.

BASIS FOR INTERRUPTIBLE CREDIT

During the course of a Month, the Company may notify the Customer to interrupt the NIL. At the end of such Month, the Company will analyze the Interruptible Period(s) which occurred during the Month, if any.

A. For any Interruptible Period which included the hour in which the Company's Adjusted Monthly Peak occurred (as defined at Section 15.3 of the NEPOOL Agreement), the Interruptible Credit will be applied based upon the CIL calculated using the AIL.

B. For any Interruptible Period which did not include the Company's Adjusted Monthly Peak, the Interruptible Credit will be applied based upon the CIL calculated using the lesser of the AIL or the NIL.

C. In the event that the Customer was not required to interrupt load during the Month, the Interruptible Credit for that Month shall be based upon the lesser of the average CIL during the prior three Months or 0.80 times the NIL. When more than one interruption has been requested by the Company during the same Month, the CIL shall be averaged for the Month.

The Company shall require the Customer to interrupt its NIL at least once during each Capability Period (as defined at Section 15.7 of the NEPOOL Agreement), unless the Customer has been required by the Company to interrupt load pursuant to the provisions of this rate at another time during the same Capability Period.

LARGE GENERAL INTERRUPTIBLE SERVICE

RATE I-1

FAILURE TO INTERRUPT

If at any time a Type 1 interruptible Customer fails to interrupt an amount of load at least equal to 0.70 times the NIL within 30 minutes of being required to do so by the Company or fails to maintain such load interrupted during the Interruptible Period, the following penalties shall be applied:

A. The NIL will be reduced to the AIL for a period of 12 Months.

B. A charge will be added to the Customer's bill for the following Month equal to the difference between 0.70 times the NIL and the AIL multiplied by the Credit Amount times the lesser of 6 or the number of Months since the last change in the level of the NIL.

C. The Company may terminate the service agreement at its sole discretion.

Any penalties incurred by the Company occasioned by the failure of the Customer to perform under the terms of this rate will be borne in full by the Customer. Any interference by the Customer with the normal operation of the Company's disconnection devices shall be deemed to be a failure to interrupt and shall cause the Customer to incur the above-stated penalties.

SPECIAL PROVISIONS

A. Where the Customer has provided for the separate wiring and metering of the Interruptible Load, such wiring shall preclude any use of the Company's firm service as an alternate source of supply to the Interruptible Load. The Customer may not, under any circumstances, use the Company's firm service as an alternate source of supply to the Interruptible Load during interruptions of supply hereunder.

B. Upon written request of the Company, the Customer shall install, maintain and bear the cost of such telemetering equipment and data circuits as the Company may reasonably require for the transmission of various metered values to its operations center. The design of and equipment specifications for such telemetering equipment and data circuits shall be approved by the Company prior to installation thereof by the Customer.

LARGE GENERAL INTERRUPTIBLE SERVICE

RATE I-1

SPECIAL PROVISIONS (continued)

C. Upon written request of the Company, the Customer shall provide at its own expense a circuit breaker capable of disconnecting the Interruptible Load served hereunder through remote control devices installed and controlled by the Company. The Company will furnish and the Customer shall install the equipment to provide remote control of the circuit breaker at a location approved by the Company. The Customer shall furnish and install the electrical facilities required to connect the control equipment and shall supply the electric power necessary for its operation. Until such time as the Company's remote control system is installed, the Customer will be responsible for disconnecting the Interruptible Load at the Company's request.

D. Upon written request of the Company, the Customer shall provide a telephone module, dedicated solely to the purpose of communicating with the Company, with both audible and visual alarms to ensure prompt and effective response to the notification by the Company. Telephone calls to and from the Company's System Control Center will be recorded.

TERM

The rate shall terminate on December 31, 2000.

Filed Pursuant to Order of the
Massachusetts Department of Telecommunications and Energy
Issued February 27, 1998 in D.P.U./D.T.E. 97-111

Information Request NEDGC-2-14

Provide complete and detailed documentation regarding the level of reserve distribution capacity – e.g. distribution capacity over and above projected system peak load -- that is typically incorporated into the distribution system planning process for each distribution voltage level, including substation, primary and secondary distribution.

Response

See the response to Information Request AG-1-10. Attachment AG-1-10, Attachment A, is the annual filing titled "NSTAR 2003 Transmission and Distribution Operating Study."

Information Request NEDGC-2-16

Provide complete and detailed documentation showing how the Company recovers costs incurred from firm all-requirements customers who reduce their electricity consumption as a result of installing equipment or instituting other energy conservation measures.

Response

Pursuant to the Restructuring Act, the cost of energy efficiency measures is collected annually through a fixed energy efficiency charge established by statute. See G.L. c. 25, § 19. The charge is uniform to all customers and is consistent with specific energy efficiency programs and budgets approved by the Department and the Division of Energy Resources.

However, there are several important distinguishing features that make the recovery of energy efficiency costs different from self-generation situations. First, unlike self-generation, energy efficiency measures generally do not displace a customer's total (or the vast majority of) load. Second, once installed, the energy efficiency measures, if properly maintained, would not result in the instantaneous resumption of the customer's former load on the distribution system, as would be the case if there were an outage of a customer's generator. Third, as a policy matter, essentially all customers have the option of participating in energy efficiency initiatives in some manner while, as a practical matter, self-generation is an option to only a relatively small minority of customers. Moreover, unlike in self-generation contexts, there is diversity among customers that pursue energy efficiency initiatives, with many customers participating and those customers being connected on the same distribution circuits. These distinguishing characteristics call for a different ratemaking approach to ensure that cost recovery mechanisms are in place and that cost shifting and cross subsidies are avoided. It also bears repeating here that the proposed standby rates are cost-based rates for services that a customer voluntarily requests the Company to provide and that the costs recovered through the proposed rates may be avoided if the customer does not desire firm, back-up service from the Company.

Please also see the response to Information Request NEDGC-2-17.

Information Request NEDGC-2-17

Provide complete and detailed documentation showing how the Company recovers costs from firm all-requirements customers who reduce their electricity consumption due to any circumstances other than those listed in the prior question NEDGC 2-17 [sic].

Response

During a base rate proceeding, base rates are set to ensure the recovery of the established revenue requirement, as determined by the Department. Between such base rate proceedings, there are various changes that occur relating to, among other things, cost incurrence, changes in the number of customers and changes in usage patterns that can affect cost recovery. For example, in a situation where a customer reduces its need for electricity from the Company because of a customer electing to discontinue its operations and to leave the service territory, ongoing cost recovery from that customer may not be available. Such circumstances are often part of the normal ebb and flow of customers. However, this type of ebb and flow is completely different from the self-generation context where a customer remains connected to the distribution system, the distribution company maintains an obligation to serve and, on an instantaneous basis, the distribution company must meet the full requirements of the self-generating customer when loads are imposed on the electric system.

Please also see the response to Information Request NEDGC 2-16.

Information Request NEDGC-2-18

Provide, for each Company, the monthly number of customers for each Applicable Rate Schedule for the years 1998-2003.

Response

Please see responses to Information Requests DTE-2-11, DTE-3-7 and DTE-4-8.

Information Request NEDGC-2-19

Provide, for each Company, the monthly number of customers for each Proposed Rate for the years 1998-2003.

Response

There are no customers served under the proposed rates. However, the Company has provided the number of customers receiving service under the otherwise applicable rate schedules. See response to Information Requests DTE-2-11, DTE-3-7 and DTE-4-8.

Information Request NEDGC-2-20

Provide, for each Company, the total (line and iron) peak losses as a percent of peak for the years 1993-2003 for each of the following:

(a) transmission lines

(b) distribution substations

(c) primary distribution lines

(d) secondary distribution lines.

Response

Please refer to Attachment NEDGC-2-20. The attachment sets forth the most recent loss studies conducted by the Companies. The Companies do not routinely conduct voltage level loss studies for each year.

Boston Edison Company
Peak load Losses as percentage of Peak Load
Based Upon Year 1992 Study

	Total Peak Load Losses MW	Total Peak Load MW	% of Peak Load
Transmission lines		2545.00	2.0000%
High Tension lines		2545.00	4.8800%
Primary Distribution Lines		2545.00	6.4300%
Secondary Distribution Lines		2545.00	9.8100%

Commonwealth Electric Company
Peak load Losses as percentage of Peak Load
Based Upon Year 1995 Study

	Total Peak Load Losses MW	Total Peak Load MW	% of Peak Load
Transmission lines	11.32	697.10	1.6239%
Primary Distribution Lines	17.60	697.10	2.5247%
Substations @ Secondary Level	10.56	697.10	1.5148%
Secondary Distribution Lines	17.08	697.10	2.4502%

Cambridge Electric Light Company
Peak load Losses as percentage of Peak Load
Based Upon Year 1995 Study

	Total Peak Load Losses MW	Total Peak Load MW	% of Peak Load
Transmission lines	1.04	288.80	0.3601%
Primary Distribution Lines	3.49	288.80	1.2084%
Substations @ Secondary Level	1.08	288.80	0.3740%
Secondary Distribution Lines	1.44	288.80	0.4986%
	7.05		

Information Request NEDGC-2-21

Provide, for each Applicable Rate Schedule, all marginal cost studies relating to the Applicable Rate Schedule submitted to the Department by the Company, dating back to and including the Last General Rate Case.

Response

Please see the responses to Information Requests DTE-2-23, DTE-3-18 and DTE-4-19 for the marginal cost studies of Boston Edison, Commonwealth Electric and Cambridge Electric Light Company, respectively.

Information Request NEDGC-2-22

Provide for each Applicable Rate Schedule, the Company's best estimate of the number of hours during the year in which the peak demand is likely to occur at each of the following levels:

(a) transmission

(b) distribution substations

(c) primary distribution

(d) secondary distribution

Response

For each level described, there is only one hour each year when peak demand is experienced by the Company. The hour of peak demand changes from year to year based on customer load, weather, the economy, and many other often difficult to identify considerations. Therefore it is not possible to estimate the "number of hours during the year" in which the peak demand is likely to occur.

Information Request NEDGC-2-23

(a) For the dollar amounts of distribution investment provided in response to Information Request NEDGC 1-11, identify for each account, year and voltage level, the dollar amounts of new investment related to major system renovations.

(b) Additionally, provide the response to part (a) in test year dollars, using the test year from the cost of service study submitted to the Department in the Company's Last General Rate Case. For example, if the test year of the cost of service study was 1997, provide the response to part (a) in 1997 dollars. Provide complete and detailed documentation for the conversion of the dollar amounts provided in response to part (a) to test year dollars.

Response

The Company objects to this requests because it does not keep records of major system renovations in the form and format requested. Compiling such data would require a time-consuming and burdensome special study. Notwithstanding this objection, the Company will attempt to compile responsive information and will supplement this response when the information is available.

Information Request NEDGC-2-24

Provide the response to NEDGC 1-11 in test year dollars, using the test year from the cost of service study submitted to the Department in the Company's Last General Rate Case. For example, if the test year of the cost of service study was 1997, provide the response to NEDGC 1-11 in 1997 dollars. Provide complete and detailed documentation for the conversion of the dollar amounts provided in response to NEDGC 1-11 to test year dollars.

Response

Please refer to Attachment NEDGC-2-24. The conversion of the dollar amounts was based on the Handy-Whitman index of distribution investments.

Boston Edison Company
Functionalization of the Distribution Plant Account Additions (360-373)
Costs Indexed to Test Year 1991

	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993
360 Land and Land Rights	$2,440,042	-$14,460	$914	$56,928	-$320,246	$0	-$260,402	$0	$0	-$3,683	$297,823
Substation Plant	$2,440,042	-$14,460	$914	$56,928	-$320,246	$0	-$260,402	$0	$0	-$3,683	$297,823
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
361 Structures and Improvements	-$4,270,227	$1,628,778	-$97,657	$374,391	-$11,119,249	$4,966	-$4,068,412	-$892,756	$36,272,664	$654,168	$1,310,535
Substation Plant	-$4,270,227	$1,628,778	-$97,657	$374,391	-$11,119,249	$4,966	-$4,068,412	-$892,756	$36,272,664	$654,168	$1,310,535
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
362 Station Equipment	$3,960,940	$4,191,242	$7,993,996	$4,424,136	$17,337,639	$1,617,865	$4,366,651	$3,137,446	$39,078,838	$3,074,367	-$182,882
Substation Plant	$3,960,940	$4,191,242	$7,993,996	$4,424,136	$17,337,639	$1,617,865	$4,366,651	$3,137,446	$39,078,838	$3,074,367	-$182,882
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
363 Storage Battery Equipment	$7,333	$50,854	$0	$0	$0	$0	$0	$0	$0	$0	$0
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$7,333	$50,854	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
364 Poles, Towers and Fixtures	-$6,677,474	$1,596,768	$138,121	$6,740,651	$1,522,240	$2,139,031	$1,127,525	$4,467,008	$5,144,733	$3,782,604	$3,354,551
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	-$4,555,491	$1,089,344	$94,229	$2,277,692	$514,371	$722,787	$380,995	$1,509,419	$1,738,425	$1,278,156	$1,133,516
Secondary Plant	-$2,121,984	$507,425	$43,892	$4,462,959	$1,007,869	$1,416,244	$746,530	$2,957,589	$3,406,308	$2,504,448	$2,221,036
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
365 Overhead Conductors and Devices	-$476,254	$6,699,112	$3,864,171	$5,252,557	$2,948,115	$7,677,644	$9,123,330	$13,422,492	$14,021,984	$9,975,789	$4,395,402
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	-$324,909	$4,570,252	$2,636,205	$2,373,020	$1,331,911	$3,468,635	$4,121,773	$6,064,065	$6,334,906	$4,506,900	$1,985,772
Secondary Plant	-$151,345	$2,128,860	$1,227,965	$2,879,537	$1,616,205	$4,209,008	$5,001,557	$7,358,427	$7,687,078	$5,468,889	$2,409,630
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
366 Underground Conduit	$15,299,993	$26,759,929	$3,646,004	$9,788,158	$1,549,376	$11,717,727	$10,703,075	$7,462,826	$4,358,865	$3,690,598	$3,185,061
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$12,360,698	$21,619,056	$2,945,567	$7,567,236	$1,197,824	$9,058,988	$8,274,559	$5,769,520	$3,369,844	$2,853,206	$2,462,374
Secondary Plant	$2,939,295	$5,140,873	$700,437	$2,220,922	$351,552	$2,658,739	$2,428,516	$1,693,307	$989,022	$837,393	$722,687
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
367 Underground Conductors and Devices	$98,112,409	$12,708,479	$99,532,439	$3,657,667	$26,150,209	$27,005,982	$27,191,351	$37,291,470	$37,306,844	$24,402,348	$28,062,913
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$79,263,949	$10,267,042	$80,411,175	$3,172,422	$22,680,989	$23,423,230	$23,584,007	$32,344,193	$32,357,527	$21,165,008	$24,339,943
Secondary Plant	$18,848,460	$2,441,437	$19,121,263	$485,245	$3,469,221	$3,582,752	$3,607,344	$4,947,277	$4,949,317	$3,237,340	$3,722,970
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
368 Line Transformers	$24,657,778	$29,726,773	$9,165,187	$9,587,319	$12,598,599	$6,191,952	$3,672,092	$12,060,446	$7,338,007	$6,859,589	$5,407,089
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$729,673	$879,675	$271,216	$696,552	$915,332	$449,867	$266,790	$876,233	$533,132	$483,842	$392,844
Secondary Plant	$23,928,104	$28,847,097	$8,893,970	$8,890,767	$11,683,267	$5,742,086	$3,405,302	$11,184,213	$6,804,875	$6,175,747	$5,014,246
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
369 Services	$3,340,593	$21,383,173	-$71,720	$4,022,021	$6,018,647	$3,760,253	$3,734,654	$7,716,601	$6,928,004	$4,119,093	$8,182,012
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$3,340,593	$21,383,173	-$71,720	$4,022,021	$6,018,647	$3,760,253	$3,734,654	$7,716,601	$6,928,004	$4,119,093	$8,182,012
370 Meters	$1,360,931	$5,600,207	$836,897	$1,430,987	$9,948,834	$1,620,485	$11,679,894	$13,918,041	$3,790,130	$5,853,548	$5,200,329
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$1,360,931	$5,600,207	$836,897	$1,430,987	$9,948,834	$1,620,485	$11,679,894	$13,918,041	$3,790,130	$5,853,548	$5,200,329
371 Installation on Customer Premises	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
372 Leased Property on Customer Premises	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
373 Street Light and Signal Systems	-$384,725	$1,144,970	$3,818	$661,927	$15,937	$84,865	-$1,540,296	$2,485,280	$3,450,334	$2,242,162	$4,313,800
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	-$384,725	$1,144,970	$3,818	$661,927	$15,937	$84,865	-$1,540,296	$2,485,280	$3,450,334	$2,242,162	$4,313,800
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Grand Total	$137,371,337	$111,475,825	$125,012,169	$45,996,742	$66,650,102	$61,820,769	$65,729,462	$101,068,854	$157,690,404	$64,450,584	$63,526,633

Commonwealth Electric Company
Functionalization of the Distribution Plant Account Additions (360-373)
Costs Indexed to Test Year 1990

	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993
360 Land and Land Rights	$0	$0	$0	$0	$9,654	$22,525	$49,286	$23,758	$92,393	$6,868	$4,383
Substation Plant	$0	$0	$0	$0	$9,654	$22,525	$49,286	$23,758	$92,393	$6,868	$4,383
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
361 Structures and Improvements	$12,547	$1,148	$10,581	$31,760	$4,527	$7,436	$7,752	$8,474	$10,913	$1,465	$10,125
Substation Plant	$12,547	$1,148	$10,581	$31,760	$4,527	$7,436	$7,752	$8,474	$10,913	$1,465	$10,125
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
362 Station Equipment	$3,089,476	$2,678,304	$214,312	$280,558	$1,011,533	$2,047,007	$1,360,127	$545,992	$708,890	$243,439	$217,038
Substation Plant	$3,089,476	$2,678,304	$214,312	$280,558	$1,011,533	$2,047,007	$1,360,127	$545,992	$708,890	$243,439	$217,038
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
363 Storage Battery Equipment	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
364 Poles, Towers and Fixtures	$3,682,855	$4,264,278	$2,977,905	$552,322	$2,375,831	$2,214,687	$2,757,338	$2,277,341	$2,928,136	$2,568,048	$2,719,218
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$2,375,442	$2,750,459	$1,920,749	$356,248	$1,532,411	$1,428,473	$1,778,483	$1,468,885	$1,888,648	$1,656,391	$1,753,895
Secondary Plant	$1,307,414	$1,513,819	$1,057,156	$196,074	$843,420	$786,214	$978,855	$808,456	$1,039,488	$911,657	$965,322
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
365 Overhead Conductors and Devices	$12,694,054	$7,231,020	$7,040,857	$842,792	$3,522,650	$2,720,805	$4,363,768	$3,720,803	$4,343,503	$3,916,113	$4,541,294
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$7,121,364	$4,056,602	$3,949,921	$472,806	$1,976,207	$1,526,372	$2,448,074	$2,087,370	$2,436,705	$2,196,940	$2,547,666
Secondary Plant	$5,572,690	$3,174,418	$3,090,936	$369,986	$1,546,444	$1,194,434	$1,915,694	$1,633,432	$1,906,798	$1,719,174	$1,993,628
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
366 Underground Conduit	$1,144,466	$523,114	$899,104	$326,877	$625,077	$1,156,113	$604,961	$644,032	$839,368	$1,019,380	$870,425
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$572,233	$261,557	$449,552	$163,439	$312,538	$578,056	$302,480	$322,016	$419,684	$509,690	$435,213
Secondary Plant	$572,233	$261,557	$449,552	$163,439	$312,538	$578,056	$302,480	$322,016	$419,684	$509,690	$435,213
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
367 Underground Conductors and Devices	$4,481,575	$2,496,293	$1,073,913	$578,571	$1,958,630	$1,609,616	$1,565,225	$2,286,996	$5,269,332	$2,671,997	$2,559,356
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$2,957,839	$1,647,553	$708,783	$381,857	$1,292,696	$1,062,346	$1,033,048	$1,509,417	$3,477,759	$1,763,518	$1,689,175
Secondary Plant	$1,523,735	$848,739	$365,130	$196,714	$665,934	$547,269	$532,176	$777,579	$1,791,573	$908,479	$870,181
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
368 Line Transformers	$6,405,012	$2,665,670	$7,541,909	$0	$3,555,275	$3,273,486	$2,242,301	$2,253,231	$2,421,282	$2,296,016	$1,855,832
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$6,405,012	$2,665,670	$7,541,909	$0	$3,555,275	$3,273,486	$2,242,301	$2,253,231	$2,421,282	$2,296,016	$1,855,832
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
369 Services	$1,515,626	$3,742,499	$1,083,131	$341,925	$1,214,932	$1,512,308	$1,330,359	$1,229,487	$1,245,430	$1,209,639	$1,259,064
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$1,515,626	$3,742,499	$1,083,131	$341,925	$1,214,932	$1,512,308	$1,330,359	$1,229,487	$1,245,430	$1,209,639	$1,259,064
370 Meters	$1,940,254	$590,204	$73,002	$0	$980,782	$782,393	$979,205	$755,840	$1,084,029	$1,012,590	$831,398
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$1,940,254	$590,204	$73,002	$0	$980,782	$782,393	$979,205	$755,840	$1,084,029	$1,012,590	$831,398
371 Installation on Customer Premises	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
372 Leased Property on Customer Premises	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
373 Street Light and Signal Systems	$187,700	$281,728	$560,803	$120,303	$326,645	$0	$378,935	$389,828	$390,105	$8,655,152	$8,968,157
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$187,700	$281,728	$560,803	$120,303	$326,645	$0	$378,935	$389,828	$390,105	$8,655,152	$8,968,157
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Grand Total	$35,153,564	$24,474,258	$21,475,517	$3,075,110	$15,585,537	$15,346,374	$15,639,256	$14,135,783	$19,333,380	$23,600,707	$23,836,289

Cambridge Electric Light Company
Functionalization of the Distribution Plant Account Additions (360-373)
Costs Indexed to Test Year 1992

	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993
360 Land and Land Rights	$0	$0	$0	$0	$320	$538	$136	$210	$177	$129	$2,543
Substation Plant	$0	$0	$0	$0	$320	$538	$136	$210	$177	$129	$2,543
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
361 Structures and Improvements	-$277,497	$183,997	$99,549	$0	$0	$0	$979	$0	$13,043	$116,305	$0
Substation Plant	-$277,497	$183,997	$99,549	$0	$0	$0	$979	$0	$13,043	$116,305	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
362 Station Equipment	$3,934,325	$2,684,859	$791,357	$539,642	$282,518	$883,557	$446,301	$1,011,757	$1,003,756	$928,459	$294,989
Substation Plant	$3,934,325	$2,684,859	$791,357	$539,642	$282,518	$883,557	$446,301	$1,011,757	$1,003,756	$928,459	$294,989
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
363 Storage Battery Equipment	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
364 Poles, Towers and Fixtures	$30,603	$105,148	-$3,351	$72,675	$234,679	$204,396	$110,233	$92,431	$133,533	$115,196	$153,498
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$16,128	$55,413	-$1,766	$38,300	$123,676	$107,717	$58,093	$48,711	$70,372	$60,708	$80,894
Secondary Plant	$14,475	$49,735	-$1,585	$34,375	$111,003	$96,679	$52,140	$43,720	$63,161	$54,488	$72,605
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
365 Overhead Conductors and Devices	$216,560	$300,800	$19,869	$179,903	$334,104	$281,406	$153,694	$199,506	$274,740	$190,404	$246,981
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$111,962	$155,514	$10,272	$93,010	$172,732	$145,487	$79,460	$103,145	$142,040	$98,439	$127,689
Secondary Plant	$104,599	$145,287	$9,597	$86,893	$161,372	$135,919	$74,234	$96,361	$132,699	$91,965	$119,292
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
366 Underground Conduit	$176,698	$196,294	-$5,783	$246,184	$115,781	$454,571	$301,504	$292,740	$327,662	$752,327	$288,824
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$125,986	$139,958	-$4,123	$175,529	$82,552	$324,109	$214,972	$208,724	$233,623	$536,409	$205,932
Secondary Plant	$50,712	$56,336	-$1,660	$70,655	$33,229	$130,462	$86,532	$84,016	$94,039	$215,918	$82,893
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
367 Underground Conductors and Devices	$2,632,280	$2,479,362	$727,759	$1,298,280	$2,062,937	$2,256,270	$1,500,829	$1,065,259	$1,397,288	$774,394	$1,332,818
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$2,016,326	$1,899,191	$557,463	$994,483	$1,580,210	$1,728,303	$1,149,635	$815,988	$1,070,323	$593,186	$1,020,938
Secondary Plant	$615,953	$580,171	$170,296	$303,798	$482,727	$527,967	$351,194	$249,271	$326,965	$181,208	$311,879
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
368 Line Transformers	$53,684	$394,200	$0	$304,083	$233,710	$176,872	$153,291	$148,772	$155,019	$86,845	$88,254
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$53,684	$394,200	$0	$304,083	$233,710	$176,872	$153,291	$148,772	$155,019	$86,845	$88,254
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
369 Services	$201,681	$2,578,638	$45,778	$18,162	$147,677	$149,275	$130,546	$118,291	$143,457	$137,752	$132,505
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$201,681	$2,578,638	$45,778	$18,162	$147,677	$149,275	$130,546	$118,291	$143,457	$137,752	$132,505
370 Meters	$1,044,290	$192,689	$0	$0	$183,118	$118,989	$128,514	$88,629	$108,021	$97,792	$122,507
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$1,044,290	$192,689	$0	$0	$183,118	$118,989	$128,514	$88,629	$108,021	$97,792	$122,507
371 Installation on Customer Premises	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
372 Leased Property on Customer Premises	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
373 Street Light and Signal Systems	$8,866	$4,632	$5,711	$53,022	$79,068	$86,442	$209,366	$242,554	$108,221	$258,847	$289,145
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$8,866	$4,632	$5,711	$53,022	$79,068	$86,442	$209,366	$242,554	$108,221	$258,847	$289,145
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Grand Total	$8,021,490	$9,120,620	$1,680,890	$2,711,952	$3,673,914	$4,612,315	$3,135,394	$3,260,149	$3,664,918	$3,458,450	$2,952,063

Information Request NEDGC-2-25

Provide the response to NEDGC 1-12 in test year dollars, using the test year from the cost of service study submitted to the Department in the Company's Last General Rate Case. For example, if the test year of the cost of service study was 1997, provide the response to NEDGC 1-12 in 1997 dollars. Provide complete and detailed documentation for the conversion of the dollar amounts provided in response to NEDGC 1-12 to test year dollars.

Response

Attachment NEDGC-2-25 provides the response to Information Request NEDGC 1-12 in indexed dollars commensurate with the cost of service test year in the last general rate case. With respect to Boston Edison, the distribution O&M expenses for each year during the period 1993 to 2003 were indexed to the year 1991 on the basis of the DRI cost-employment indices. For Commonwealth and Cambridge, the distribution O&M expenses in the years 1993 to 2003 were indexed on the basis of the DRI cost-employment indices to the years 1990 and 1992, respectively.

Boston Edison Company
Functionalization of the Distribution O&M Expenses (580-598)
O&M Expenses Indexed to year 1991 on Basis of DRI Employment Cost

	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993
580 Operation Supervision and Engineering	$10,076,368	$12,028,105	$13,461,726	$15,976,117	$10,260,535	$10,390,075	$9,002,462	$8,653,093	$8,669,041	$5,923,039	$8,460,923
Substation Plant	$1,705,603	$2,035,969	$2,278,634	$2,704,239	$1,736,776	$1,758,703	$1,523,825	$1,464,688	$1,467,388	$1,002,579	$1,432,160
Primary Plant	$4,053,233	$4,838,322	$5,414,998	$6,426,415	$4,127,314	$4,179,422	$3,621,253	$3,480,719	$3,487,134	$2,382,551	$3,403,418
Secondary Plant	$3,157,973	$3,769,655	$4,218,958	$5,006,978	$3,215,692	$3,256,290	$2,821,407	$2,711,913	$2,716,912	$1,856,304	$2,651,687
Services and Meters	$1,159,559	$1,384,160	$1,549,136	$1,838,485	$1,180,753	$1,195,660	$1,035,977	$995,773	$997,608	$681,606	$973,659
581 Load Dispatching	$2,984,696	$3,208,042	$4,100,246	$3,766,465	$4,138,053	$3,347,197	$2,984,841	$3,090,166	$2,227,771	$2,563,883	$3,448,507
Substation Plant	$570,911	$613,633	$784,293	$720,447	$791,525	$640,250	$570,939	$591,085	$426,127	$490,418	$659,629
Primary Plant	$1,356,726	$1,458,250	$1,863,812	$1,712,088	$1,880,997	$1,521,505	$1,356,792	$1,404,669	$1,012,657	$1,165,441	$1,567,557
Secondary Plant	$1,057,059	$1,136,159	$1,452,141	$1,333,930	$1,465,531	$1,185,442	$1,057,110	$1,094,412	$788,986	$908,024	$1,221,322
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
582 Station Expenses	$3,731,737	$3,246,010	$2,422,952	$3,250,918	$3,567,244	$3,650,423	$4,063,776	$4,904,172	$3,203,244	$3,567,920	$3,761,319
Substation Plant	$3,731,737	$3,246,010	$2,422,952	$3,250,918	$3,567,244	$3,650,423	$4,063,776	$4,904,172	$3,203,244	$3,567,920	$3,761,319
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
583 Overhead Line Expenses	$4,175,927	$4,317,507	$5,076,329	$3,441,174	$4,481,673	$5,923,707	$6,625,977	$11,334,688	$3,712,414	$4,400,138	$4,510,469
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$1,759,652	$1,819,311	$2,139,063	$1,450,042	$1,888,487	$2,496,132	$2,792,054	$4,776,211	$1,564,337	$1,854,130	$1,900,622
Secondary Plant	$2,416,275	$2,498,196	$2,937,265	$1,991,132	$2,593,185	$3,427,575	$3,833,923	$6,558,477	$2,148,077	$2,546,008	$2,609,848
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
584 Underground Line Expenses	$5,917,533	$4,438,379	$5,699,128	$4,626,081	$4,778,198	$6,615,442	$9,599,400	$10,593,033	$4,557,422	$8,443,604	$6,496,166
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$5,012,786	$3,759,784	$4,827,774	$3,918,788	$4,047,647	$5,603,990	$8,131,724	$8,973,438	$3,860,626	$7,152,641	$5,502,951
Secondary Plant	$904,746	$678,595	$871,354	$707,293	$730,551	$1,011,451	$1,467,676	$1,619,595	$696,796	$1,290,964	$993,215
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
585 Street Lighting and Signal System Expenses	$1,068,855	$794,493	$1,034,978	$1,218,191	$1,482,548	$1,199,066	$446,360	$178,526	$286,461	$374,644	$672,504
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$1,068,855	$794,493	$1,034,978	$1,218,191	$1,482,548	$1,199,066	$446,360	$178,526	$286,461	$374,644	$672,504
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
586 Meter Expenses	$3,053,555	$3,554,629	$3,177,507	$2,903,667	$2,617,960	$3,253,989	$3,220,807	$2,195,494	$4,642,732	$4,503,333	$5,672,321
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$3,053,555	$3,554,629	$3,177,507	$2,903,667	$2,617,960	$3,253,989	$3,220,807	$2,195,494	$4,642,732	$4,503,333	$5,672,321
587 Customer Installations Expenses	$895,096	$853,040	$1,126,584	$1,323,872	$1,665,022	$1,498,198	$1,505,060	$1,177,571	$2,315,771	$2,593,314	$4,699,850
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$895,096	$853,040	$1,126,584	$1,323,872	$1,665,022	$1,498,198	$1,505,060	$1,177,571	$2,315,771	$2,593,314	$4,699,850
588 Miscellaneous Expenses	$4,252,814	$7,996,836	$5,818,258	$2,285,343	$2,271,809	$7,872,072	$5,012,401	$3,568,162	$14,114,253	$9,927,795	$769,393
Substation Plant	$719,864	$1,353,605	$984,843	$386,835	$384,544	$1,332,487	$848,437	$603,974	$2,389,086	$1,680,454	$130,233
Primary Plant	$1,710,700	$3,216,738	$2,340,402	$919,282	$913,838	$3,166,552	$2,016,245	$1,435,298	$5,677,478	$3,993,469	$309,490
Secondary Plant	$1,332,849	$2,506,240	$1,823,465	$716,235	$711,994	$2,467,138	$1,570,906	$1,118,276	$4,423,462	$3,111,410	$241,131
Services and Meters	$489,402	$920,253	$669,548	$262,991	$261,433	$905,895	$576,813	$410,614	$1,624,227	$1,142,462	$88,540
589 Rents	$72,779	$686,874	$422,150	$356,096	$110,738	$186,435	$277,356	-$69,754	$212,760	$365,604	$342,102
Substation Plant	$12,319	$116,266	$71,456	$60,275	$18,744	$31,557	$46,947	-$11,807	$36,013	$61,885	$57,907
Primary Plant	$29,275	$276,296	$169,811	$143,240	$44,545	$74,994	$111,567	-$28,059	$85,583	$147,065	$137,611

Secondary Plant	$22,809	$215,269	$132,304	$111,602	$34,706	$58,429	$86,924	-$21,861	$66,680	$114,582	$107,216
Services and Meters	$8,375	$79,044	$48,580	$40,978	$12,743	$21,454	$31,917	-$8,027	$24,484	$42,073	$39,368
590 Maintenance Supervision and Engineering	$1,106,879	$1,321,257	$1,478,671	$2,385,075	$1,531,795	$1,551,715	$1,099,600	$1,357,864	$2,681,459	$3,224,649	$3,520,254
Substation Plant	$187,359	$223,646	$250,291	$403,716	$259,283	$262,655	$186,127	$229,842	$453,884	$545,829	$595,865
Primary Plant	$445,244	$531,478	$594,797	$959,399	$616,167	$624,179	$442,316	$546,203	$1,078,621	$1,297,119	$1,416,027
Secondary Plant	$346,900	$414,087	$463,421	$747,492	$480,071	$486,313	$344,619	$425,560	$840,380	$1,010,618	$1,103,261
Services and Meters	$127,376	$152,046	$170,161	$274,467	$176,275	$178,567	$126,539	$156,259	$308,575	$371,083	$405,101
591 Maintenance of Structures	$224,979	$353,400	$368,090	$80,952	$141,261	$204,500	$212,451	$290,112	$177,567	$286,453	$201,037
Substation Plant	$224,979	$353,400	$368,090	$80,952	$141,261	$204,500	$212,451	$290,112	$177,567	$286,453	$201,037
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
592 Maintenance of Station Equipment	$1,943,405	$2,476,235	$2,167,038	$2,076,508	$2,331,671	$1,664,641	$1,024,395	$1,279,970	$2,851,407	$3,211,384	$3,441,362
Substation Plant	$1,943,405	$2,476,235	$2,167,038	$2,076,508	$2,331,671	$1,664,641	$1,024,395	$1,279,970	$2,851,407	$3,211,384	$3,441,362
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
593 Maintenance of Overhead Lines	$5,135,047	$7,338,447	$8,498,236	$5,829,167	$5,245,666	$5,262,255	$9,376,507	$4,074,794	$6,055,198	$6,176,305	$9,091,317
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$2,163,806	$3,092,275	$3,580,987	$2,456,294	$2,210,419	$2,217,409	$3,951,073	$1,717,037	$2,551,540	$2,602,572	$3,830,899
Secondary Plant	$2,971,241	$4,246,172	$4,917,249	$3,372,872	$3,035,247	$3,044,846	$5,425,434	$2,357,757	$3,503,659	$3,573,734	$5,260,418
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
594 Maintenance of Underground Lines	$3,519,234	$3,484,720	$2,569,507	$3,304,559	$3,515,390	$4,258,358	$3,571,198	$3,776,601	$7,384,396	$7,816,862	$9,598,871
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$2,981,169	$2,951,932	$2,176,649	$2,799,317	$2,977,914	$3,607,287	$3,025,189	$3,199,187	$6,255,377	$6,621,722	$8,131,276
Secondary Plant	$538,064	$532,788	$392,858	$505,242	$537,477	$651,071	$546,009	$577,414	$1,129,019	$1,195,140	$1,467,595
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
595 Maintenance of Line Transformers	$0	$0	$0	$0	$0	$0	$10,558	$66,928	$59,042	$223,282	$532,687
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$767	$4,863	$4,290	$16,222	$38,702
Secondary Plant	$0	$0	$0	$0	$0	$0	$9,791	$62,066	$54,752	$207,060	$493,986
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
596 Maintenance of Street Lighting and Signal Systems	$101,541	$96,562	$135,547	$166,334	$195,318	$236,814	$878,730	$887,414	$1,235,417	$1,566,471	$2,213,860
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$101,541	$96,562	$135,547	$166,334	$195,318	$236,814	$878,730	$887,414	$1,235,417	$1,566,471	$2,213,860
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
597 Maintenance of Meters	$0	$5,932	$12,762	$0	$0	$0	$0	$0	$898,124	$706,828	$668,840
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$0	$5,932	$12,762	$0	$0	$0	$0	$0	$898,124	$706,828	$668,840
598 Maintenance of Miscellaneous Distribution Plant	$361,381	$692,648	-$640,552	$7,108,504	$6,779,906	$6,292,939	$5,791,171	$5,875,362	$3,568,257	$3,494,714	$0
Substation Plant	$61,170	$117,243	-$108,425	$1,203,239	$1,147,618	$1,065,191	$980,258	$994,509	$603,990	$591,542	$0
Primary Plant	$145,366	$278,618	-$257,663	$2,859,405	$2,727,226	$2,531,343	$2,329,506	$2,363,372	$1,435,336	$1,405,754	$0
Secondary Plant	$113,258	$217,079	-$200,752	$2,227,833	$2,124,849	$1,972,232	$1,814,976	$1,841,362	$1,118,306	$1,095,257	$0
Services and Meters	$41,587	$79,708	-$73,713	$818,026	$780,212	$724,173	$666,431	$676,120	$410,625	$402,162	$0
Grand Total	$48,621,827	$56,893,117	$56,929,159	$60,099,021	$55,114,789	$63,407,825	$64,703,051	$63,234,198	$68,852,737	$69,370,224	$68,101,784
Substation Plant	$9,157,347	$10,536,006	$9,219,172	$10,887,129	$10,378,667	$10,610,407	$9,457,155	$10,346,547	$11,608,707	$11,438,464	$10,279,512
Primary Plant	$19,657,959	$22,223,005	$22,850,630	$23,644,271	$21,434,555	$26,022,813	$27,778,485	$27,872,937	$27,012,978	$28,638,685	$26,238,551
Secondary Plant	$14,031,571	$17,105,294	$18,178,790	$18,105,134	$16,607,169	$18,996,668	$20,303,867	$19,410,911	$19,008,906	$18,850,214	$19,036,043
Services and Meters	$5,774,950	$7,028,812	$6,680,567	$7,462,487	$6,694,398	$7,777,937	$7,163,544	$5,603,804	$11,222,147	$10,442,861	$12,547,678

Commonwealth Electric Company
Functionalization of the Distribution O&M Expenses (580-598)
O&M Expenses Indexed to year 1990 on Basis of DRI Employment Cost

	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993
580 Operation Supervision and Engineering	$4,613,190	$4,752,972	$4,992,683	$4,990,747	$683,930	$1,163,414	$1,177,770	$1,057,016	$1,073,196	$1,097,254	$1,406,399
Substation Plant	$161,878	$166,783	$175,194	$175,126	$23,999	$40,824	$41,328	$37,091	$37,659	$38,503	$49,351
Primary Plant	$1,683,736	$1,734,755	$1,822,245	$1,821,539	$249,623	$424,626	$429,866	$385,793	$391,699	$400,479	$513,312
Secondary Plant	$2,026,485	$2,087,889	$2,193,189	$2,192,339	$300,437	$511,065	$517,371	$464,327	$471,434	$482,003	$617,804
Services and Meters	$741,090	$763,546	$802,054	$801,744	$109,871	$186,898	$189,204	$169,805	$172,405	$176,270	$225,932
581 Load Dispatching	$1,518,808	$837,309	$615,541	$981,522	$542,583	$535,472	$172,529	$167,113	$167,638	$161,583	$0
Substation Plant	$63,496	$35,005	$25,733	$41,034	$22,683	$22,386	$7,213	$6,986	$7,008	$6,755	$0
Primary Plant	$660,436	$364,094	$267,661	$426,803	$235,936	$232,844	$75,022	$72,667	$72,895	$70,262	$0
Secondary Plant	$794,877	$438,211	$322,147	$513,685	$283,964	$280,242	$90,294	$87,459	$87,734	$84,565	$0
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
582 Station Expenses	$452,612	$549,967	$618,404	$1,117,329	$627,400	$453,350	$388,802	$426,960	$512,851	$390,057	$433,371
Substation Plant	$452,612	$549,967	$618,404	$1,117,329	$627,400	$453,350	$388,802	$426,960	$512,851	$390,057	$433,371
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
583 Overhead Line Expenses	$3,766,025	$3,308,382	$3,329,853	$2,595,594	$965,036	$920,523	$1,039,475	$1,068,263	$956,989	$1,070,035	$945,223
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$2,249,720	$1,976,336	$1,989,163	$1,550,536	$576,486	$549,895	$620,954	$638,151	$571,679	$639,210	$564,650
Secondary Plant	$1,516,306	$1,332,046	$1,340,691	$1,045,058	$388,550	$370,628	$418,521	$430,112	$385,310	$430,826	$380,573
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
584 Underground Line Expenses	$966,387	$1,113,439	$1,121,570	$991,305	$181,189	$189,904	$198,744	$173,838	$187,992	$140,592	$193,316
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$597,102	$687,962	$692,986	$612,499	$111,951	$117,336	$122,798	$107,409	$116,155	$86,868	$119,445
Secondary Plant	$369,284	$425,477	$428,584	$378,806	$69,238	$72,568	$75,946	$66,428	$71,837	$53,724	$73,872
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
585 Street Lighting and Signal System Expenses	$481,015	$705,562	$807,788	$699,039	$603,557	$673,880	$723,062	$815,255	$959,536	$968,228	$859,316
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$481,015	$705,562	$807,788	$699,039	$603,557	$673,880	$723,062	$815,255	$959,536	$968,228	$859,316
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
586 Meter Expenses	$1,238,186	$1,522,685	$1,405,291	$1,415,836	$972,170	$990,473	$1,547,712	$1,022,559	$1,170,763	$1,091,581	$1,058,476
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$1,238,186	$1,522,685	$1,405,291	$1,415,836	$972,170	$990,473	$1,547,712	$1,022,559	$1,170,763	$1,091,581	$1,058,476
587 Customer Installations Expenses	$251,716	$442,743	$906,507	$1,025,505	$1,176,450	$948,209	$1,100,341	$1,135,870	$1,160,154	$1,290,624	$1,293,205
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$251,716	$442,743	$906,507	$1,025,505	$1,176,450	$948,209	$1,100,341	$1,135,870	$1,160,154	$1,290,624	$1,293,205
588 Miscellaneous Expenses	$1,802,997	$1,115,746	$2,996,329	$162,589	$3,565,796	$2,341,170	$5,174,663	$2,654,381	$2,189,130	$2,066,976	$1,907,406
Substation Plant	$63,267	$39,152	$105,142	$5,705	$125,124	$82,152	$181,580	$93,143	$76,817	$72,531	$66,931
Primary Plant	$658,064	$407,228	$1,093,610	$59,342	$1,301,456	$854,487	$1,888,665	$968,805	$798,996	$754,411	$696,171
Secondary Plant	$792,022	$490,125	$1,316,230	$71,422	$1,566,385	$1,028,431	$2,273,129	$1,166,019	$961,643	$907,983	$837,887
Services and Meters	$289,644	$179,240	$481,348	$26,119	$572,831	$376,100	$831,289	$426,416	$351,675	$332,051	$306,417
589 Rents	$524,305	$466,016	$628,198	$513,197	$117,799	$73,154	$87,292	$70,293	$75,962	$102,273	$112,403
Substation Plant	$18,398	$16,353	$22,044	$18,008	$4,134	$2,567	$3,063	$2,467	$2,666	$3,589	$3,944
Primary Plant	$191,362	$170,088	$229,282	$187,308	$42,995	$26,700	$31,860	$25,656	$27,725	$37,328	$41,025
Secondary Plant	$230,317	$204,712	$275,955	$225,437	$51,747	$32,135	$38,346	$30,878	$33,369	$44,926	$49,377
Services and Meters	$84,227	$74,864	$100,918	$82,443	$18,924	$11,752	$14,023	$11,292	$12,203	$16,430	$18,057
590 Maintenance Supervision and Engineering	$8,668	$1,275,056	$26,510	$0	$452,931	$860,809	$921,780	$1,000,255	$906,601	$764,879	$1,072,791
Substation Plant	$304	$44,742	$930	$0	$15,893	$30,206	$32,345	$35,099	$31,813	$26,840	$37,644
Primary Plant	$3,164	$465,374	$9,676	$0	$165,312	$314,181	$336,434	$365,076	$330,894	$279,168	$391,551
Secondary Plant	$3,807	$560,108	$11,645	$0	$198,964	$378,137	$404,920	$439,393	$398,252	$335,996	$471,256
Services and Meters	$1,392	$204,833	$4,259	$0	$72,762	$138,285	$148,080	$160,687	$145,642	$122,875	$172,340
591 Maintenance of Structures	$5,968	$10,571	$18,825	$6,738	$30,450	$41,352	$86,637	$52,696	$11,717	$9,809	$192,547

Substation Plant	$5,968	$10,571	$18,825	$6,738	$30,450	$41,352	$86,637	$52,696	$11,717	$9,809	$192,547
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
592 Maintenance of Station Equipment	$233,058	$313,898	$366,703	$369,515	$642,635	$437,869	$553,755	$576,653	$601,491	$289,252	$307,888
Substation Plant	$233,058	$313,898	$366,703	$369,515	$642,635	$437,869	$553,755	$576,653	$601,491	$289,252	$307,888
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
593 Maintenance of Overhead Lines	$4,057,984	$4,870,411	$4,038,586	$2,942,096	$7,394,809	$4,132,209	$5,424,374	$5,789,985	$4,372,875	$4,022,302	$4,591,473
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$2,424,128	$2,909,450	$2,412,540	$1,757,527	$4,417,455	$2,468,468	$3,240,372	$3,458,778	$2,612,235	$2,402,813	$2,742,819
Secondary Plant	$1,633,856	$1,960,962	$1,626,046	$1,184,569	$2,977,354	$1,663,741	$2,184,002	$2,331,207	$1,760,640	$1,619,490	$1,848,653
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
594 Maintenance of Underground Lines	$428,630	$567,288	$680,564	$821,976	$869,564	$883,349	$704,167	$668,941	$536,106	$601,538	$648,765
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$264,838	$350,511	$420,501	$507,875	$537,278	$545,796	$435,085	$413,319	$331,244	$371,673	$400,853
Secondary Plant	$163,792	$216,777	$260,063	$314,101	$332,285	$337,553	$269,083	$255,622	$204,862	$229,865	$247,912
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
595 Maintenance of Line Transformers	$0	$0	$0	$3,836	$430,344	$310,732	$263,945	$326,958	$335,689	$372,895	$323,810
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$3,836	$430,344	$310,732	$263,945	$326,958	$335,689	$372,895	$323,810
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
596 Maintenance of Street Lighting and Signal Systems	$16,667	$11,402	$52,717	$96,977	$193,114	$215,212	$215,766	$176,289	$231,883	$218,933	$189,764
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$16,667	$11,402	$52,717	$96,977	$193,114	$215,212	$215,766	$176,289	$231,883	$218,933	$189,764
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
597 Maintenance of Meters	$0	-$421	$922	$0	$28,940	$2,871	$58,624	$42,736	$58,838	$50,591	$58,716
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$0	-$421	$922	$0	$28,940	$2,871	$58,624	$42,736	$58,838	$50,591	$58,716
598 Maintenance of Miscellaneous Distribution Plant	$246,493	$308,300	$891,852	$2,423,647	$370,507	$160,757	$153,070	$166,269	$189,300	$212,582	$216,883
Substation Plant	$8,649	$10,818	$31,295	$85,046	$13,001	$5,641	$5,371	$5,834	$6,643	$7,460	$7,610
Primary Plant	$89,966	$112,524	$325,511	$884,590	$135,229	$58,674	$55,868	$60,685	$69,091	$77,589	$79,159
Secondary Plant	$108,280	$135,430	$391,773	$1,064,661	$162,756	$70,618	$67,241	$73,039	$83,156	$93,383	$95,272
Services and Meters	$39,598	$49,527	$143,272	$389,349	$59,520	$25,825	$24,590	$26,710	$30,410	$34,150	$34,841
Grand Total	$20,612,707	$22,171,328	$23,498,845	$21,157,449	$19,849,202	$15,334,709	$19,992,507	$17,392,329	$15,698,710	$14,921,985	$15,811,754
Substation Plant	$1,007,630	$1,187,288	$1,364,271	$1,818,501	$1,505,320	$1,116,348	$1,300,094	$1,236,928	$1,288,664	$844,795	$1,099,288
Primary Plant	$8,822,515	$9,178,322	$9,263,173	$7,808,020	$7,773,720	$5,593,007	$7,236,923	$6,496,339	$5,322,613	$5,119,800	$5,548,985
Secondary Plant	$8,136,707	$8,568,701	$9,026,829	$7,789,931	$7,558,695	$5,944,941	$7,541,627	$6,662,986	$5,985,345	$5,842,818	$5,995,496
Services and Meters	$2,645,854	$3,237,016	$3,844,572	$3,740,996	$3,011,467	$2,680,413	$3,913,863	$2,996,076	$3,102,089	$3,114,572	$3,167,985

Cambridge Electric Light Company
Functionalization of the Distribution O&M Expenses (580-598)
O&M Expenses Indexed to year 1992 on Basis of DRI Employment Cost

	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993
580 Operation Supervision and Engir	$334,906	$412,032	$746,409	$1,268,091	$280,445	$339,790	$434,024	$304,631	$297,455	$309,937	$395,562
Substation Plant	$105,110	$129,316	$234,260	$397,989	$88,017	$106,643	$136,218	$95,608	$93,356	$97,273	$124,147
Primary Plant	$126,633	$155,796	$282,229	$479,485	$106,041	$128,480	$164,111	$115,186	$112,472	$117,192	$149,568
Secondary Plant	$72,373	$89,040	$161,299	$274,034	$60,604	$73,428	$93,792	$65,831	$64,280	$66,977	$85,481
Services and Meters	$30,790	$37,881	$68,622	$116,584	$25,783	$31,239	$39,903	$28,007	$27,347	$28,495	$36,367
581 Load Dispatching	$88,563	$140,548	-$41,436	$400,529	$263,782	$265,319	$81,900	$79,063	$80,020	$76,157	$0
Substation Plant	$30,609	$48,577	-$14,321	$138,433	$91,169	$91,701	$28,307	$27,326	$27,657	$26,322	$0
Primary Plant	$36,877	$58,524	-$17,254	$166,779	$109,838	$110,478	$34,103	$32,922	$33,320	$31,712	$0
Secondary Plant	$21,076	$33,448	-$9,861	$95,317	$62,774	$63,140	$19,491	$18,815	$19,043	$18,124	$0
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
582 Station Expenses	$541,964	$287,576	$389,376	$167,829	$46,523	$54,440	$90,290	$111,782	$97,115	$83,059	$101,588
Substation Plant	$541,964	$287,576	$389,376	$167,829	$46,523	$54,440	$90,290	$111,782	$97,115	$83,059	$101,588
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
583 Overhead Line Expenses	$137,226	$70,299	$434,888	$468,252	$490,674	$474,959	$499,786	$411,292	$543,326	$486,062	$507,259
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$71,337	$36,545	$226,077	$243,421	$255,078	$246,908	$259,815	$213,811	$282,449	$252,680	$263,700
Secondary Plant	$65,889	$33,754	$208,811	$224,830	$235,596	$228,051	$239,972	$197,481	$260,877	$233,382	$243,560
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
584 Underground Line Expenses	$158,168	$159,474	$232,924	$198,984	$246,389	$275,101	$184,409	$212,557	$145,053	$181,679	$164,945
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$118,090	$119,065	$173,904	$148,564	$183,957	$205,394	$137,682	$158,698	$108,299	$135,644	$123,150
Secondary Plant	$40,078	$40,409	$59,020	$50,420	$62,432	$69,707	$46,727	$53,860	$36,755	$46,035	$41,795
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
585 Street Lighting and Signal Syste	$2,704	$184	$16,278	$85,963	$93,188	$92,299	$106,595	$99,140	$99,659	$100,094	$96,674
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$2,704	$184	$16,278	$85,963	$93,188	$92,299	$106,595	$99,140	$99,659	$100,094	$96,674
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
586 Meter Expenses	$178,958	$212,368	$248,167	$235,722	$202,783	$180,135	$191,338	$205,626	$159,938	$105,723	$102,571
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$178,958	$212,368	$248,167	$235,722	$202,783	$180,135	$191,338	$205,626	$159,938	$105,723	$102,571
587 Customer Installations Expenses	$31,755	$29,263	$44,255	$77,071	$114,138	$53,031	$37,557	$92,699	$81,816	$159,497	$152,490
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$31,755	$29,263	$44,255	$77,071	$114,138	$53,031	$37,557	$92,699	$81,816	$159,497	$152,490
588 Miscellaneous Expenses	$422,402	$357,998	$842,795	$224,207	$122,740	$367,424	$639,370	$183,215	$190,174	$209,772	$241,604
Substation Plant	$132,570	$112,357	$264,510	$70,367	$38,522	$115,315	$200,665	$57,502	$59,686	$65,837	$75,827
Primary Plant	$159,717	$135,364	$318,673	$84,776	$46,410	$138,928	$241,755	$69,276	$71,908	$79,318	$91,354
Secondary Plant	$91,281	$77,363	$182,128	$48,451	$26,524	$79,400	$138,167	$39,593	$41,096	$45,332	$52,210
Services and Meters	$38,834	$32,913	$77,484	$20,613	$11,284	$33,780	$58,781	$16,844	$17,484	$19,286	$22,212
589 Rents	$380,276	$92,218	$253,277	$279,689	$462,066	$434,098	$388,833	$41,079	$3,868	$2,498	$1,948
Substation Plant	$119,349	$28,943	$79,491	$87,780	$145,019	$136,241	$122,035	$12,893	$1,214	$784	$611
Primary Plant	$143,788	$34,869	$95,768	$105,755	$174,714	$164,139	$147,024	$15,533	$1,462	$945	$736

Secondary Plant	$82,178	$19,928	$54,733	$60,441	$99,852	$93,808	$84,027	$8,877	$836	$540	$421
Services and Meters	$34,961	$8,478	$23,285	$25,714	$42,481	$39,910	$35,748	$3,777	$356	$230	$179
590 Maintenance Supervision and Er	$1,815	$101,208	$5,057	$0	$283,134	$232,456	$157,159	$147,394	$133,051	$131,704	$183,001
Substation Plant	$570	$31,764	$1,587	$0	$88,861	$72,956	$49,324	$46,259	$41,758	$41,335	$57,435
Primary Plant	$686	$38,268	$1,912	$0	$107,057	$87,895	$59,424	$55,732	$50,309	$49,799	$69,196
Secondary Plant	$392	$21,871	$1,093	$0	$61,185	$50,234	$33,962	$31,852	$28,752	$28,461	$39,547
Services and Meters	$167	$9,305	$465	$0	$26,030	$21,371	$14,449	$13,551	$12,232	$12,108	$16,825
591 Maintenance of Structures	$5,286	$20,873	$32,014	$5,009	$27,007	$29,409	$26,576	$55,151	$35,426	$65,933	$49,968
Substation Plant	$5,286	$20,873	$32,014	$5,009	$27,007	$29,409	$26,576	$55,151	$35,426	$65,933	$49,968
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
592 Maintenance of Station Equipme	$170,591	$132,933	$190,360	$240,758	$435,066	$350,844	$97,103	$109,928	$107,651	$148,543	$141,782
Substation Plant	$170,591	$132,933	$190,360	$240,758	$435,066	$350,844	$97,103	$109,928	$107,651	$148,543	$141,782
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
593 Maintenance of Overhead Lines	$78,791	$207,981	$249,947	$298,716	$546,148	$298,538	$261,614	$292,526	$308,620	$236,021	$240,713
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$40,960	$108,119	$129,935	$155,288	$283,916	$155,196	$136,000	$152,070	$160,436	$122,696	$125,135
Secondary Plant	$37,831	$99,862	$120,012	$143,428	$262,232	$143,343	$125,613	$140,456	$148,183	$113,325	$115,578
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
594 Maintenance of Underground Li	$179,595	$74,509	$54,649	$219,894	$414,642	$275,281	$188,943	$184,768	$179,032	$155,610	$217,882
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$134,088	$55,630	$40,802	$164,176	$309,576	$205,528	$141,067	$137,950	$133,667	$116,180	$162,673
Secondary Plant	$45,507	$18,880	$13,847	$55,719	$105,065	$69,753	$47,876	$46,818	$45,365	$39,430	$55,209
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
595 Maintenance of Line Transforme	$0	$0	$0	$8	$2,468	$250	$3,031	$3,309	$6,740	$855	$0
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$8	$2,468	$250	$3,031	$3,309	$6,740	$855	$0
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
596 Maintenance of Street Lighting a	$0	$0	$2,725	$14,351	$25,092	$29,876	$41,264	$30,277	$29,645	$36,477	$64,613
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$2,725	$14,351	$25,092	$29,876	$41,264	$30,277	$29,645	$36,477	$64,613
Services and Meters	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
597 Maintenance of Meters	$0	$63	$12,726	$0	$55,876	$34,142	$41,320	$25,647	$54,594	$36,951	$77,490
Substation Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Primary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Secondary Plant	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Services and Meters	$0	$63	$12,726	$0	$55,876	$34,142	$41,320	$25,647	$54,594	$36,951	$77,490
598 Maintenance of Miscellaneous D	$51,239	$55,382	$198,794	$474,567	$55,814	$39,651	$31,548	$44,084	$37,308	$29,310	$46,140
Substation Plant	$16,081	$17,382	$62,391	$148,942	$17,517	$12,444	$9,901	$13,836	$11,709	$9,199	$14,481
Primary Plant	$19,374	$20,941	$75,167	$179,441	$21,104	$14,993	$11,929	$16,669	$14,107	$11,082	$17,446
Secondary Plant	$11,073	$11,968	$42,959	$102,554	$12,061	$8,569	$6,817	$9,527	$8,062	$6,334	$9,971
Services and Meters	$4,711	$5,092	$18,276	$43,630	$5,131	$3,645	$2,900	$4,053	$3,430	$2,695	$4,242
Grand Total	$2,764,241	$2,354,910	$3,913,206	$4,659,642	$4,167,974	$3,827,044	$3,502,660	$2,634,169	$2,590,490	$2,555,880	$2,786,229
Substation Plant	$1,122,131	$809,720	$1,239,668	$1,257,108	$977,701	$969,993	$760,419	$530,285	$475,572	$538,285	$565,837
Primary Plant	$851,551	$763,121	$1,327,213	$1,727,684	$1,597,691	$1,457,939	$1,332,910	$967,846	$968,429	$917,247	$1,002,958
Secondary Plant	$470,383	$446,706	$853,043	$1,155,516	$1,109,075	$1,001,859	$987,334	$745,835	$789,292	$735,365	$805,057
Services and Meters	$320,176	$335,362	$493,281	$519,333	$483,507	$397,253	$421,997	$390,203	$357,198	$364,984	$412,376